

Tower Mounted Amplifier, Single GSM/UMTS 900 with AISG

OBSOLETE

This product was discontinued on: December 31, 2023 **Replaced By:** E16R01P97 Tower Mounted Amplifier, Dual GSM/UMTS 900 with AISG

Product Classification

Product Type	1-BTS:1-ANT (Uniplex) Tower mounted amplifier	
General Specifications		
Color	Gray	
Modularity	1-Single	
Mounting	Pole Wall	
Mounting Pipe Hardware	Band clamps (2)	
RF Connector Interface	7-16 DIN Female	
RF Connector Interface Body Style	Long neck	
Dimensions		
Height	260 mm 10.236 in	
Width	170 mm 6.693 in	
Depth	71 mm 2.795 in	
Ground Screw Diameter	8 mm 0.315 in	
Mounting Pipe Diameter Range	40-160 mm	
Electrical Specifications		
License Band, LNA	CEL 900	

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Electrical Specifications, dc Power/Alarm

Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform
Operating Current at Voltage	105 mA @ 12 Vdc
Operating Current Tolerance	±20 mA
Voltage	7-30 Vdc
Alarm Current, CWA Mode	185 mA ±10 mA

Electrical Specifications, AISG

AISG Connector	8-pin DIN Female
AISG Connector Standard	IEC 60130-9
Protocol	AISG 1.1
Voltage, AISG Mode	10-30 Vdc

Electrical Specifications

Sub-module	1
Branch	1
Port Designation	ANT
License Band	CEL 900, LNA
Return Loss - Bypass Mode, typical, dB	14
TX Band Rejection, minimum, dB	80

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	880-915
Bandwidth, MHz	35
Gain, nominal, dB	12
Gain Tolerance, dB	±1
Noise Figure, maximum, dB	1.6
Noise Figure, typical, dB	1.3
Group Delay Variation, maximum, ns	60
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum,	200

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Output IP3, minimum, dBm	22
Return Loss, minimum, dB	18
Insertion Loss - Bypass	3
Mode, typical, dB	

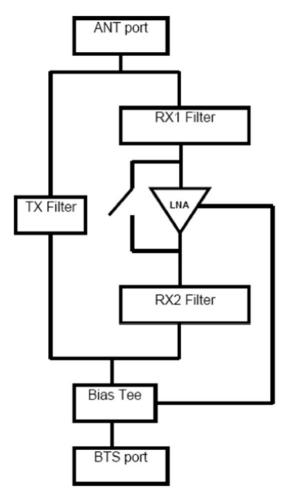
Electrical Specifications Tx (Downlink)

Frequency Range, MHz	925-960
Bandwidth, MHz	35
Insertion Loss, maximum, dB	0.7
Insertion Loss Ripple, maximum, dB	0.5
Group Delay Variation, maximum, ns	28
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	78
Return Loss, minimum, dB	18
RX Band Rejection, minimum, dB	40
Input Power, RMS, maximum, W	200
Input Power, PEP, maximum, W	5000
3rd Order PIM, maximum, dBc	-159
3rd Order PIM Test Method	Two +43 dBm carriers

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Block Diagram



Material Specifications

Finish

Painted

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	Up to 100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

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Included

Mounting hardware

Weight, net

4.5 kg | 9.921 lb

Regulatory Compliance/Certifications

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



Agency

* Footnotes

License Band, LNA License Bands that have RxUplink amplification

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